



### Our Star Achievers (Batch 2015-18)



Ms. Pooja Gupta, B.Sc. (Hons) Microbiology, has been selected to pursue an MPhil in Biological Science at the Department of Biochemistry, Cambridge University. She has been awarded the prestigious Gates Cambridge Scholarship with an award value of GBP 44,000 and is among the 92 scholar-elects from all over the world to get this scholarship.



Ms. Isha Sikri, B.Sc. (Hons) Biomedical Science, obtained admission in M.Sc. Regenerative Medicine, National University of Ireland, with full scholarship.



Ms. Harshita Gaur, B.Sc. (Hons) Biomedical Science, obtained admission in M.Sc. in Bioinformatics from University of Glasgow, UK with full scholarship.



Ms. Munni Kumari, B.Sc. (Hons) Polymer Science, got selected for doing Masters Program in Advanced Materials Innovative Recycling "AMIR" at the Universite de Bordeaux, France with travel and accommodation costs for two years.



Ms. Vanita, B.Sc. (Hons) Polymer Science, got selected for doing Masters Program in Advanced Materials Innovative Recycling "AMIR" at the Universite de Bordeaux, France with travel and accommodation costs for two years.

### Outstanding student achievements (Current Batches)

- **Parth Bidaliya** and **Saiyam Dhoval**, final year students of Polymer Science Department bagged the **Best Poster Award** for the research work titled "Biodegradable and Printable Polyester Films" at the 7<sup>th</sup> National Symposium on Advances in Chemical Sciences, organised by Department of Chemistry, Guru Nanak Dev University, Amritsar, held on 26 & 27 March, 2018.
- **Nishant Sindhu**, final year student of Electronics Department secured **Gold medal** in 50 m pistol event in Men section and a silver medal in 50 m pistol event in Junior men section at Haryana State Shooting Championship held at new Delhi from 1 July to 5 July, 2018.
- **Udaat Mittu**, final year student of Microbiology Department received **First prize** in debate competition held during Open Day on 24 September, 2018 at Regional Centre for Biotechnology, Faridabad, Haryana.
- **Nidhi Bijalwan**, **Neema Kushwaha** and **Shantanu Pandey**, final year students of Polymer Science Department, received the **Best Paper Award** for the research work titled "Synthesis and Study of Mechanical Properties of PVA/Vegetable Oil based Polymer Blends" at the National Conference on "New Trends in Nanotechnology and Applications" held on 27 & 28 September, 2018 organized by the Department of Physics, Atmaram Sanatan Dharma College, University of Delhi.
- **Siddharth Trigunayat** first year student of Microbiology Department obtained **first position** in the debate competition held during Annual Technology Fest, Inceptum 2018, GB Pant Engineering College, held on 5 October, 2018.

## College Activities: At a Glance

**Women Development Cell** conducted a 10 day Self Defence Training for girls and women of neighbouring areas of the college as an outreach activity in collaboration with Delhi Police from 2-12 July, 2018. About 70 girls and women from neighbouring societies actively participated in it. The cell further organised a training session in the college for "Himmat plus app" of Delhi police for the protection of girls and women, on the occasion of Independence day.



**The Swachta committee** conducted training of Lab staff on "Handling of Biomedical waste" on 19 July, 2018. Mr. Amit Singh from SMS WATERGRACE BMW Pvt Ltd was the resource person. Swachhta Pakhwada was also organised from 1-15 September during which all the staff and students took swachta shapath and a short movie was screened on swachata awareness. A plantation drive and slogan writing competition were also carried out.

The students and staff of the college celebrated the 72<sup>nd</sup> Independence day with a lot of enthusiasm and patriotism. **The ECA committee and its constituent clubs** organized a cultural program to mark the occasion. A myriad of performances by students included patriotic songs, dances, skit, poetry recital, debate, kavi sammelan etc.



**The NSS cell** observed Swachhta Pakhwada from August 3-16, 2018. Various activities like campus cleaning drive, door to door campaign in the adopted village (Mangolpuri), distribution of literature in the district, cleaning of old age homes, and bus stations, rally in the village and Dwarka areas were organized.

The students of **Gandhian Study Centre** and **Dramatics club** participated in an inter college competition titled 'Plays on Gandhi' on the occasion of 150<sup>th</sup> anniversary celebrations of Mahatma Gandhi, conducted by Gandhi Bhawan, University of Delhi, on August 23, 2018.



**Eco Club** in collaboration with **Department of Botany** and organised the celebration of Ozone Day on 14 September, 2018 through a poster making competition on recycled paper, on the theme titled "Paryavaran aur Jeevan".





The **Career Counseling cell** organized a career counseling session on "Higher Education Opportunities in Abroad" on 28 September, 2018 in AV room of the college in collaboration with TIME Education. The speaker was Mr. Atul Gupta, Product Head, who talked about the Study abroad courses of the company.

The **Canteen committee** of the college organised Fostac training (FSSAI) for DU canteen operators, hostels, messes, teachers and students on 29 September, 2018. Canteen and hostel staff of 44 colleges of DU and 95 personnel were trained for the Basic catering program.



The **Training and Placement Cell**, organized a Seminar on "*Opportunities in Sciences, Challenges and Way Forward*" on October 5, 2018. The highlights of the seminar were the inauguration of BCAS Innovation Hub and lectures by eminent speakers in the fields of IPR start ups, funding sources, along with career opportunities in various field of Sciences such as Biological, Chemical, Physical, and IT.

## Departmental Activities

### Department of Chemistry

The departmental society "ALCHEMY" of the department organized a Debate & Essay competition on 10<sup>th</sup> August 2018. The topic of debate was "Food: Past Perspectives vs. Present Perspectives". Essay competitions on the topics "Nanotechnology – Is it the "latest fad" and "Excessive use of mobile phones and electronic devices" were also held.

### Department of Instrumentation

The departmental society "Sensors" organized an industrial visit on 27 August, 2018 to Aimil Instrumentation and Technologies Ltd., a technical leader in Instrumentation technologies. Students were apprised about the functioning of quality control and civil engineering departments and also about the training and recruitment processes of the company.

### Department of Microbiology

The Sukshmjeev Society of the department under the aegis of Star College Scheme, celebrated *World Rose Day* on 24 September, 2018, in collaboration with Manipal Hospitals, Dwarka, and in solidarity with the cancer patients and their care-givers. The students and faculty visited day-care and radiation oncology departments of the hospital and presented hand-made greeting cards and roses to the cancer patients and the nursing staff.

### Department of Physics

The departmental society "Qubit" invited Mr Abhai Kumar, Scientist, Directorate of Nano Materials and Technology (DNMAT), DMSRDE (DRDO), Kanpur to deliver a lecture on "Nano Photonics" on 14 September 2018. The students were introduced to Nano photonics technology as one of the key disruptive technologies for many advance applications such as ultra-fast computing, high speed data centres, secure communications for defence and on-chip sensors for the point of care diagnostics.

### Department of Polymer Science

"Pearls", the departmental society, organised a visit of their final year students to University Science Instrumentation Centre, University of Delhi on 6 September, 2018. The students and staff were detailed about the working of advanced instruments such as high resolution X-ray diffractometer, FTIR spectrophotometer, Scanning electron microscope etc.

## Faculty Achievements: Academics & Research

### Extramural Research Funding:

- ❖ **Dr. Uma Dhawan**, Department of Biomedical Science, became the recipient of SERB-DST Research Project titled "Significance of 5-hydroxymethylcytosine in neurodegeneration associated with rapid eye movement sleep deprivation" for a total amount of Rupees 40,11,480.

### Research Publications/ Book chapters/Articles:

- ❖ Ashish Singh, Sanjeev Thakur, **Balaram Pani** and Gurmeet Singh (2018). Green synthesis and corrosion inhibition study of. 2-amino-N'-(thiophen-2-yl) methylene benzohydrazide. *New Journal of Chemistry*; 42: 2113-2124.
- ❖ Dhananjay Shaw, **Balaram Pani**, **Anil Bali**, Deepika Dhiman and **Pawan Kumar** (2018). Selected kinematics of upper punches, middle punches and lower punches of Karate- A comparative study. *DU Journal of Undergraduate Research and Innovation*; 3: 64-70.
- ❖ Anuvrat Sircar, **Balaram Pani** and **Uma Chaudhry** (2018). Biosimilars as therapeutic agents against neurodegenerative diseases- a focus on multiple sclerosis. *Modern Applications of Bioequivalence and Bioavailability*; 3: 1-4.
- ❖ **Anil Bali** (2018). Host dependent expression of lactose (lac) promoter in *Azotobacter vinelandii* and streptomycin (str) promoter in *Azorhizobium caulinodans*. *Asian Journal of Microbiology and Environmental Sciences*; 20: 582-587.
- ❖ **Sidharth Sirohi**, Manjeet Jassal, Ashwini K. Agrawal (2018). Surfactant free nano-encapsulation using reactive oligomers obtained by reversible addition fragmentation chain transfer polymerization of styrene and maleic anhydride. *Applied Nanoscience* 8: 1701-1710.
- ❖ **Dr. Madhulika Bajpai**, Department of Human Communication, authored two chapters titled "Understanding your adolescent" & "Effective parenting skills" in the book titled, "Art and Science of Parenting", edited by Shri A.K. Mishra and Prof. N. K. Chadha and published by A.K. Mishra's Art of Success Private Limited (2018).
- ❖ **Dr. Shalini Sehgal**, Department of Food Technology, authored a book chapter titled "Role of consumers in innovation of novel food and beverages" in the book titled "Innovations in technologies for fermented food and beverage industries", edited by Shetty and Panda, 289-296, Springer, ISBN 978-3-319-74819-1.
- ❖ **Dr. Jayant Sharma**, Department of Computer Science, authored 3 books for classes IX, X and XI titled "Information practices with python", "Information technology" and "Information technology" with B.R. International Publishers, Delhi.
- ❖ **Dr. Geeta Bhatt**, Department of Instrumentation, published an article titled "Skewed Portrayal of Indigenous Knowledge System" in Shaikshik Manthan, July issue, 2018.
- ❖ **Dr. Geeta Bhatt**, Department of Instrumentation, published an article titled "Ram and our Concomitant Identity" published in The Pioneer, on 10 April 2018.

### Resource persons:

- ❖ **Dr. Ruchi Gulati Marwah** and **Dr. Neha Minocha**, Department of Microbiology were the resource persons for the Faculty Development Program titled "Industrial and Environmental Microbiology" held on 19 & 20 March, 2018 at Department of Botany, Daulat Ram College, University of Delhi.
- ❖ **Dr. Uma Dhawan**, Department of Biomedical Science, was the Coordinator and Resource Person for the first MHRD GIAN Course of University of Delhi on "RNA Metabolism and Neurodegenerative Diseases" held from 2-7 April, 2018 at University of Delhi.
- ❖ **Dr. Anil Bali**, Department of Zoology, was the resource person during the International symposium on ciliate biology, ISCB 2018 held at India Habitat Centre on 4-6 April, 2018.
- ❖ **Ms. Arti Dua**, Department of Computer Science was invited as a resource person for taking a session on assessment tools in one week Faculty Development Program titled "e-learning, MOOCs & ICT tools for blended learning" organised by Guru Angad Dev Teaching Learning Centre of MHRD, SGTB Khalsa College, University of Delhi on 5 July, 2018.
- ❖ **Dr. Jayant Sharma**, Department of Computer Science, was the Jury member, in Indiaskills, 2018 organised by National Skill Development Corporation from 2-6 October, 2018.

With best wishes from *Bhaskarjyoti Editorial Team*:

**Dr. Ruchi Gulati Marwah, Dr. Geeta Mongia & Dr. Inderbir Kaur**

**Bhaskaracharya College of Applied Sciences**

University of Delhi

Sector 2, Phase 1, Dwarka, New Delhi-110075, India, Tel.: 011 25087597, 011-2508 1015

E.mail: bhaskaracharya.college@bcas.du.ac.in ; Website: bcas.du.ac.in